

Rio Grande

Ecological Services Field Office

photo: USFWS



photo: Kevin Schafer



photo: USFWS



photo: USFWS



Agustín P. Valido, Field Supervisor
Río Grande ES Field Office
Calle García de la Noceda #38
P.O. Box 1600
Río Grande, PR 00745
Phone: 787/887 8769
Fax: 787/887 7512
E-mail: Fernando_Nunez@fws.gov

Photos (top to bottom)

Caribbean National Forest.

Endangered Puerto Rican parrot.

Nest maintenance, modification and repairs.

Monitoring captive nesting activity.

Station Facts

- Established: 1990.
- Current FY 02 budget: \$1,103,000.
- Number of staff: 10.

Station Goals

- Coordinate management and research/recovery efforts for the endangered Puerto Rican Parrot (*Amazona vittata*), one of the 10 most endangered birds in the world and the only native parrot in U.S. territory.
- Promote the conservation of habitat for the Puerto Rican Parrot, other endangered, native and migratory bird species.
- Promote international technology interchange to assist other island nations in the Caribbean in the management of their natural resources.

Services Provided to

- Private individuals.
- Federal agencies and local government and non-government organizations.
- Girl and Boy Scouts of America.
- Public schools and municipal governments.

Activity Highlights

- Released captive-reared parrots into the wild at the Caribbean National Forest.
- Field efforts have included the restoration of nest cavities and field infrastructure in the Caribbean National Forest after the devastation of the Puerto Rican Parrot population and its habitat by hurricanes.

- Coordinated interagency recovery efforts and developed strategies to deal with predators, competitors, nest guarding techniques and survey methodology.
- Exchange of technology and technical assistance with the Río Abajo Aviary managed by the Puerto Rico Department of Natural and Environmental Resources (DNER).
- Proper management of captive population to assure production of individuals to be released into the wild, wild nest manipulation, and facilitate surrogate parents for double clutches of active wild nests.
- Designed and coordinated research projects to develop and refine techniques for the re-introduction of captive-raised parrots into the wild.
- Promoted international technology interchange with neighboring Caribbean nations including the training of biologists and technicians from different countries and conducting workshops on the techniques used in Puerto Rican Parrot recovery program.

Questions and Answers

What are the functions of the Fish and Wildlife Service, Río Grande Field Office?

The Río Grande Field Office is responsible for the coordination of all activities involved in the conservation and recovery of the Puerto Rican Parrot. Recovery activities include interagency coordination of management and research projects, the protection of wild nests from predators and competitors, the management of a captive flock, and evaluating and promoting the conservation of habitat for the future reestablishment of more wild populations.

Río Grande Ecological Services Field Office

I have seen parrots about everywhere in Puerto Rico. Is the Puerto Rican parrot really endangered? and if so, why is it endangered?

The Puerto Rican Parrot is one of the 10 most endangered bird species in the world and the only native parrot under United States jurisdiction. However, many other exotic parrot species have been introduced to Puerto Rico mostly as a consequence of the pet trade. The only known wild population of Puerto Rican Parrots survives at the Caribbean National Forest (El Yunque) in eastern Puerto Rico.

As with many other endangered species, a major cause of the plight of the Puerto Rican Parrot has been the conflict between human population growth and land use practices with the conservation of wildlife habitat. The Puerto Rican Parrot requires mature cavity forming trees for nesting. Agricultural practices reduced the amount of mature forest areas available in Puerto Rico, thus impacting the parrot population. This reduced population became susceptible to the impact of natural predators, competitors and the effects of hurricanes.

How many Puerto Rican Parrots exist, and where are they?

As of July 2001, fewer than 200 Puerto Rican Parrots exist. Of those, 150 parrots are in captivity and approximately 40-50 individuals are in the wild. The captive population was divided in two flocks in 1993. The Puerto Rico Department of Natural and Environmental Resources manages one of the captive flocks at the José L. Vivaldi memorial aviary in the Río Abajo Commonwealth Forest. This forest is located in western Puerto Rico between the municipalities of Arecibo and Utuado. The other captive flock is found in the Luquillo mountains (El Yunque) and managed by the FWS Río Grande Field Office staff.

How do the Puerto Rican Parrots make their nests, when do they reproduce, and how long does the family stay together?

Puerto Rican Parrots are secondary cavity nesters. It means that they nest in cavities, but they can not excavate them on their own. They require large trees old enough to form natural cavities. Females make some modifications to form cup shaped depressions at the bottom of the cavities, where they lay from two to four eggs.

The breeding season usually starts in January and lasts until May or June. Puerto Rican Parrot pair bonds last until a member of the pair dies. During January, the pair selects the nest cavity, usually, the pair use the same nest every year. When the female lays eggs and starts incubating, the male brings her food. The female incubates the eggs for about 26 days, and the chicks remain in the nest for about 9 weeks. After the chicks fledge, the family remains together until the next breeding season. Sometimes the yearling parrots return to the nest sites with their parents, but they are usually expelled from the territory by the adults.

If they are endangered in the wild, why do you have Puerto Rican Parrots in captivity?

The captive flock was established in 1973 to assure the survival of the species should a catastrophic event eliminate the wild population. In 1975, only 13 parrots remained in the wild. In addition, the captive flock has provided the opportunity to enhance wild nest productivity through fostering and double clutching. Fostering has been a successful way to supplement the wild population with birds produced in captivity. More recently, 10 captive-reared Puerto Rican Parrots were successfully released in June, 2000 and 16 additional individuals in May, 2001.

What is the status of the released captive-reared birds?

After conducting an extensive pilot study in the Dominican Republic using Hispaniolan Parrots (*Amazona ventralis*) as a surrogate ecological model, a protocol and methodology was developed for the released Puerto Rican Parrots in the Caribbean National Forest. Radio transmitters were used for the two releases of parrots to track their movements and determine survival.

Following the first release of 10 Puerto Rican parrots, 90% of the individuals survived for two months indicating that the parrots were in good physical condition and capable of locating food. Released parrots were documented using areas historically occupied by wild parrots, as well as traveling with wild birds.

Results, to date, indicate that releases of captive-reared birds are a promising technique to speed the recovery of this critically endangered parrot, especially with respect to reestablishing a second wild population outside the Caribbean National Forest.